

APPLIANCE SERVICING (APPL)

This is a list of the Appliance Servicing (APPL) courses available at Kwantlen.

APPL 1110 CR-5 Basic Electricity

Students will study the basic theory of electricity and the principles of electromagnetism. They will perform practical applications on motors, circuits, switches, and other components, while learning to practice safe and correct use of the basic tools and test equipment in the appliance servicing industry. Students will also learn customer relations skills.

APPL 1115 CR-1 Basic Electronics

Students will learn the fundamentals of electronics as they relate to appliance repairs. They will apply the theory of diodes, silicone controlled rectifiers, and triacs in lab experiments using the multimeter and oscilloscope.

Prerequisites: APPL 1110

APPL 1120 CR-1 (formerly APPL 1107) Ancillary Products

Students will test and repair garbage disposers, trash compactors, and electric water heaters. They will master all procedures and safety practices to current Canadian Industrial Standards.

Prerequisites: APPL 1110

APPL 1125 CR-3 (formerly APPL 1103) Electric Dryers

Students will study the operation and repair of common makes of household electric dryers. They will use schematic diagnostic techniques and flow charts to trouble-shoot faults and will make repairs to current Canadian Industrial Standards.

Prerequisites: APPL 1110

APPL 1130 CR-5 Electric Ranges: Standard and Self-Cleaning

Students will study the operation and repair of standard and self-cleaning household ranges and wall ovens. They will apply a series of systematic procedures with the use of testers to trouble-shoot to current Canadian Industrial Standards.

Prerequisites: APPL 1110

APPL 1210 CR-5 (formerly APPL 1106) Automatic Washers

Students will focus on installation, diagnosis and repair of automatic washers. They will follow flowcharts and schematic diagrams to trouble-shoot problems and will perform repairs to current Canadian Industrial Standards.

Prerequisites: APPL 1110

APPL 1215 CR-3 (formerly APPL 1105) Automatic Electric Dishwashers

Students will focus on the installation and repair of automatic electric dishwashers. They will follow flow charts and schematic diagrams to troubleshoot electrical and mechanical problems and perform repairs to current Canadian Industrial Standards.

Prerequisites: APPL 1110

APPL 1220 CR-5.5 Basic Refrigeration and Domestic Air Conditioning

Students will focus on the theory, testing, diagnosis, and repair of domestic refrigeration units and domestic air conditioners. They will apply systematic procedures to analyze and repair refrigerators to meet current Canadian Industrial Standards.

Prerequisites: APPL 1110

APPL 1225 CR-1.5 Work Experience Practicum

Students will apply theoretical and practical experience learned during program in a workplace environment with an appliance sector employer of the student's choosing.

Prerequisites: APPL 1115 and 1120 and 1125 and 1130 and 1210 and 1215 and 1220

APPL 1230 CR-1.5 (formerly APPL 1108) Microwave Ovens

Students will study the theory and practice the safe installation, testing, and repair of microwave ovens. They will trouble-shoot and repair mechanical and electrical faults to current Canadian Industrial Standards.

Prerequisites: APPL 1110

APPL 1235 CR-2.5 B.C. Provincial "C" Gas Certificate

Students will study the basic theory and practices of the administration and regulations of the B.C. Gas Act. They will study the properties of gases, piping, regulators, burners (pilot & atmospheric), flame characteristics, orifices, combustion, air supply, venting, basic electricity, flame safety, operating valves, propane cylinders and servicing. Students will learn safety, and the use of basic tools and meters in gas servicing.

Prerequisites: APPL 1110